

STANDARD FORM NO. 64

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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files - Contract 605, T.O. 2

DATE: 30 January 1959

FROM :

SUBJECT: Conference Report - CS-8 Antenna

1. On 28 January 1959 a conference was held in Alcott Hall with representatives of [] to discuss progress on Contract 605, T.O. 2. Those present at the conference were:

[]
[]
OC-E/SEB
1 - OC-E/R+D
1ef, OC-E/R+D-EP
C-SPS/EA
- OC-E/R+D-EP
1 - OC-E/SEB
OC-D/R+D-EP

2. On the basis of an evaluation by the R+D Laboratory, the CS-8 antenna has been found to meet the design requirements for a collection system antenna from 60 to 600 mc/sec. Although the results of the R+D Laboratory investigation may have been somewhat in error due to inadequate instrumentation and a poor test site, as pointed out by [] the results are sufficiently accurate to warrant acceptance of the antenna.

3. Because of the desire for one antenna covering 30 to 1,000 megacycles, possible modification of the CS-8 antenna was discussed. Artificial loading of the elements is unsatisfactory because of decreased high frequency performance. The possibility of using another antenna to cover 30 to 60 megacycles was considered. A filter crossover network would be used to couple the two antennas to a single receiver. Dr. [] will report soon on the feasibility of the above approach.

4. Several minor mechanical modifications were proposed by the writer to make installation and removal of the CS-8 antenna easier when used outdoors. Among these modifications were the following:

- a) Provide a bearing assembly at the base of the outdoor mast and the guy support assembly to facilitate outdoor rotation.

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- b) Drill holes in the mast-base support stakes to make their removal easier when driven hard ground. A screwdriver or metal rod could be inserted in the holes to provide handles.
- c) Supply a metal cap for the tapered feedline coaxial mount so as to prevent dirt and moisture from entering the connection.

5. The antenna will be returned to for photography and the minor modifications mentioned above.

25X1



25X1

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